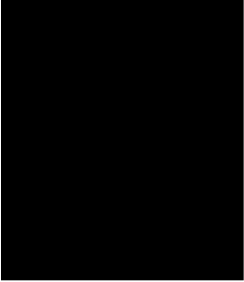


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CENTER FOR ADVANCED PATHOLOGY (CAP)



Florabel G. Mullick, M.D., S.E.S.
Associate Director
Director, Center for Advanced Pathology

Ridgely Rabold
James Affonco
Administrative Assistants

**Armed Forces Medical Examiner
Cardiovascular Pathology
Cellular Pathology
Dermatopathology
Environmental & Toxicologic Pathology
Genitourinary Pathology
Gynecologic & Breast Pathology
Hematologic & Lymphatic Pathology
Hepatic & Gastrointestinal Pathology
Infectious & Parasitic Disease Pathology
Legal Medicine
Neuropathology
Ophthalmic Pathology
Oral Pathology
Orthopedic Pathology
Otolaryngic & Endocrine Pathology
Pediatric Pathology
Pulmonary & Mediastinal Pathology
Radiologic Pathology
Scientific Laboratories
Telepathology
Soft Tissue Pathology
Veterinary Pathology**



CENTER FOR ADVANCED PATHOLOGY

Florabel G. Mullick, M.D., SES
Director

OFFICE OF THE DIRECTOR

MISSION/ORGANIZATION

The Office of the Director oversees and coordinates the general activities of the Center for Advanced Pathology and provides policy and scientific direction to the 22 separate and distinct departments of which it is comprised: Armed Forces Medical Examiner, Department of Cardiovascular Pathology, Department of Cellular Pathology, Department of Dermatopathology, Department of Environmental and Toxicologic Pathology, Department of Genitourinary Pathology, Department of Gynecologic and Breast Pathology, Department of Hematologic and Lymphatic Pathology, Department of Hepatic and Gastrointestinal Pathology, Department of Infectious and Parasitic Disease Pathology, Department of Legal Medicine, Department of Neuropathology, Department of Ophthalmic Pathology, Department of Oral Pathology, Department of Orthopedic Pathology, Department of Otolaryngic and Endocrine Pathology, Department of Pediatric Pathology, Department of Pulmonary and Mediastinal Pathology, Department of Radiologic Pathology, Department of Scientific Laboratories, Department of Soft Tissue Pathology, and Department of Veterinary Pathology.

The Office of the Director, CAP, continuously emphasizes its role in recruiting, nurturing, and defining the profile of the scientist of the future. Marrku Miettinen, M.D., was recruited to chair the Department of Soft Tissue Pathology. Dr. Miettinen comes from Thomas Jefferson University Medical Center, where he earned a distinguished reputation in soft tissue pathology. In addition, the Office of the Director, CAP, oversees the Center's operational, procedural, and main support department--CAP Operations.

It is our goal to preserve the identity of each department as it exists. However, in order to meet the high standards of our "continuous improvement program with a common sense approach," we have preserved the established scientific working groups that include our major areas of work and that foster collaboration, communication, coordination, and focus within the Center and other areas of the Institute. This office provides overall supervision to the Department of CAP Operations. The Center for Advanced Pathology, the virtual heart of the Institute, produces 50,000 consultations, over 290 scientific publications, as well as 500 lectures and educational courses annually. Dr. Mullick provides fiscal management for an operating budget in excess of \$19 million and a research budget of over \$6.5 million, which includes extramural grants.

STAFF

James Affonco, M.A., Principal Assistant
Ridgely L. Rabold, A.A.S., Special Assistant
Joseph P. Jensen, Lt Col, USAF, MSC, Administrator
Carlos H. Moran, M.S., Environmental Panels Coordinator

CENTER DEVELOPMENT

To assist in the overall management and the operational control of the scientific and administrative functions within the Center, the following CAP Management Groups were established: (1) Advisory Council, (2) Molecular Working Group, (3) Imaging Working Group, (4) Consultation Working

Group, and (5) Joint Committee on AIDS Research and Education. These scientific working groups will significantly assist the Center Director by reducing the individual span of control while increasing the amount and intensity of focus that can be applied to the important specific areas they represent. In addition, several administrative working groups had been established as a temporary operations activity; their work was completed as of December 1995.

PROGRAM SUPPORT

This office also directs the activities of the Environmental Center, the Global or International Program, the Telepathology/Telemedicine Program, and Women's Health Issues.

Environmental Pathology and Toxicology Center. This center has a total of 17,000 cases, and over 8,300 of these have been incorporated into a computerized data base called INTOX, in collaboration with the American Registry of Pathology. Three panels of experts have been organized with the purpose of serving as consultants to government agencies, universities, and private companies or institutions. The panels are: Liver, Kidney, and Pulmonary and will correlate animal and human lesions that are the result of an adverse reaction to a therapeutic drug or chemical. In 1994, the Center invited seven speakers as part of the Environmental Lecture Series. Dr. Mullick served as Department of Defense representative to the National Institute of Environmental Health Sciences Council and served as a member of the Subcommittee on Jet Fuel Toxicity for the National Academy of Science/National Research Council as well as providing professional guidance and supervision to the Environmental Pathology and Toxicology Center.

Global or International Program. A 4-day pathology course, the first ever AFIP course given completely in Spanish, was held in San Juan, Puerto Rico, in May 1995. The course was a tremendous success, with 176 registrants. As a result of its popularity, the course is planned to be held again next year in two venues: Spain and Mexico. Memoranda of agreement continue with the University of Puerto Rico at Mayaguez, the Ponce Medical School, and the University of Puerto Rico Medical School. Another is in progress to be signed by the University of Kiev, Ukraine. Under the auspices of a memorandum of agreement with the U.S. Geological Survey, a course was sponsored in Piedras Negras, Mexico, in August 1995. The theme of the course was "Trace elements in coal: environmental and health significance of coal utilization." These memoranda provide a mechanism by which the above-mentioned institutions and the AFIP will mutually benefit from the individual education and research resources available at each institution. In addition, as the complexity and basic research and education needs around health issues become clear, it is of the utmost importance to develop interinstitutional collaborations and partnerships that will address the effective use of resources, including scientific instrumentation, teaching programs, and transfer of technology developed at each institution. In 1995, Dr. Mullick continued in her position as Secretary of the International Academy of Pathology.

Telemedicine Program.

Charles Pemble, LtCol, USAF, DC, Telemedicine Program Manager.

As the 21st century approaches, we at the AFIP look forward to continuing our vital role in military and civilian medicine and extending it to take advantage of the national information infrastructure and other emerging telecommunication technology in the fields of telemedicine.

The Center for Advanced Pathology is a resolute proponent of incorporating a strong program in electronic pathology into each of our mission elements of consultation, education, and research. Our activities that offer nonconventional pathology services, including the Armed Forces Medical Examiner, the Department of Environmental and Toxicologic Pathology, the Department of Radiologic Pathology, and the Department of Legal Medicine, enhance the value of the AFIP as a national and international pathology resource and provide a broad base for telemedicine applications.

The basic tenet for the Telemedicine Program at the AFIP is that each element of the program must directly or indirectly improve our service to our "customers." Many formal projects continue and

include the Electronic Fascicle, the AFIP World Wide Web site, and creation of CD-ROMs by several individual departments. All of these efforts rely on the acquisition, storage, retrieval, and transmission of digital data--principally images and text.

Telepathology Program.

Paul Fontelo, LTC, MC, USA, Telepathology Program Manager

Mark L. Sacks, B.S., Program Administrator

Daniel R. Butler, HM2, USN, Program Assistant

The Telepathology Program was initiated to increase the efficiency and improve the response time for consultative cases. A hardware/software package has specifically been developed that has been distributed to four on-site military and civilian medical facilities for participation in this program. The Telepathology Program totalled 54 cases during 1995, with a 1-day turnaround time. Emphasis has also been expanded from the original consultation effort into the education area as well. Seven presentations were given during 1995.

Women's Health Issues. The Center for Advanced Pathology continues to be interested in and support a variety of women's health initiatives. An average of 5,000 gynecologic and breast pathology cases are processed per year, with 50% of these being military cases and 50% being civilian cases. A breast implant registry has been established. This registry has already processed 125 cases that will be incorporated into the INTOX data base. An abstract was presented at the XX International Congress of the International Academy of Pathology in Hong Kong, and a manuscript has been completed and will be submitted for publication. Women's health and HIV transmission is yet another area of focus.

PRESENTATIONS:

1. Mullick FG, codirector, organizer, and lecturer for the Spanish course: Controversias Y Adelantos en Patologia Quirurgica, given in San Juan, Puerto Rico, 31 May to 3 June 1995. Lecture title: Drug-Induced Liver Disease.
2. Mullick FG, invited lecturer, Adverse Drug Reactions, Georgetown University, March 1995.
3. Mullick FG, invited lecturer, Tissue Reaction to Drugs, Uniformed Services University of the Health Sciences, December 1995.
4. Mullick FG, invited lecturer, Adverse Drug Reactions, Puerto Rico Medical School, October 1995.
5. Mullick FG, invited lecturer, Drug-Induced Liver Disease, Update and Review of Anatomic Pathology Course, AFIP Radiologic Education Center, April 1995.
6. Mullick FG, director, organizer, cochair, and lecturer, Symposium on Environmental Pathology and Toxicology at the World Association of Societies of Pathology's XVIII World Congress of Anatomical Pathology, Auckland, New Zealand, October 1995.
7. Mullick FG, invited lecturer, The Use of Tissue in Toxicologic Pathology, Ponce School of Medicine, Ponce, Puerto Rico, May 1995.
8. Mullick FG, invited lecturer, Analytical and Molecular Biological Techniques in Environmental Toxicology and Pathology, AFIP Radiologic Education Center, August 1995.
9. Mullick FG, invited lecturer, Workshop entitled Analytical Techniques in Environmental Pathology and Toxicology, Chemical Congress, Puerto Rico, September 1995. Lecture title: Use of Human Tissues in Toxicologic Pathology. Lecture title: Adverse Drug Reactions in Environmental Pathology Toxicologic.

COMMITTEE PARTICIPATION (EXTRAMURAL)

1. Secretary, International Academy of Pathology

2. Member, Finance Committee, International Academy of Pathology
3. Member, International Organizing Committee, XXI International Congress of the International Academy of Pathology, Budapest, Hungary
4. Cochair, Organizing Committee, and member, Nominating Committee for the History of Pathology Society
5. Member, Editorial Board of Toxicologic Pathology, and section editor of Environmental Toxicologic Pathology section
6. Member, Committee on Toxicology's Subcommittee on Permissible Exposure Levels (PEL's) for Military Jet Fuels, National Research Council, National Academy of Science
7. Special consultant for pathology, University of Puerto Rico Medical School
8. Member, Editorial Board of Modern Pathology
9. Member, Electronic Journal of Pathology and Histology
10. Member, U.S. Presidential Advisory Board for the Ana G. Mendez University System (AGMUS)
11. Academic program reviewer and consultant, Metropolitan University, Eastern College, and Turabo University in Puerto Rico.
12. Member, Task Force on Technology and Network Assessment for the AGM University System
13. Member, Task Force on Science Curriculum Development and Accreditation for AGMUS

COMMITTEE PARTICIPATION (INTRAMURAL)

1. Member, Executive Committee of the AFIP
2. Chair, Executive Committee of the Medical Staff
3. Chair, Search Committee, CAP, AFIP
4. Chair, Pathology Information Management System Committee, AFIP
5. Member, Resources Management Committee
6. Member, Space Utilization and Management Committee
7. Member, Awards Committee (Military)

PUBLICATIONS

1. Centeno JA, Luke JL, Kalasinsky VF, Johnson FB, Mullick FG, Panos R. Laser-Raman microprobe identification of pathological inclusions in fibrous capsules associated with breast implants. *Plastic and Reconstructive Surgery*; 1995.

In addition, an article has been accepted for publication in *Archives of Pathology and Laboratory Medicine*.

Abstracts

1. Pestaner JP, Mullick FG, Johnson FB, Centeno JA. Calcium oxalate: molecular analysis with Raman microspectroscopy. ASCP and CAP Annual Meeting. *Am J Clin Pathol.* 1995;104:343.
2. Pestaner JP, Mullick FG, Virmani R. Comparison of toxic cardiomyopathy and dilated cardiomyopathy by light microscopy. USCAP, 84th Annual Meeting, Toronto, Canada. *Mod Pathol.* 1995;8:29A.
3. Centeno JA, Johnson FB, Kalasinsky VF, Mullick FG. Microspectroscopic evaluation of foreign inclusions in human pathology: the laser Raman microprobe technique. USCAP, 84th Annual Meeting, Toronto, Canada. *Mod Pathol.* 1995;9:194A.